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JOHN H. HOLCOMBE			BETIT, JACOB F	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/435,899	SEGER, PAUL JOSEPH				
Office Action Summary	Examiner	Art Unit				
	Jacob F. Betit	2164				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisic after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above is less than thirty	NICATION. Ins of 37 CFR 1.136(a). In no event, however, remunication. (30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (6 ply will, by statute, cause the application to become after the mailing date of this communication, 6	nay a reply be timely filed of thirty (30) days will be considered timely. NONTHS from the mailing date of this communication. DOME ABANDONED (35 U.S.C. § 133).				
Status						
2a) ☐ This action is FINAL.3) ☐ Since this application is in condition	☐ This action is FINAL. 2b)☐ This action is non-final.					
Disposition of Claims						
4) Claim(s) 1-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-50 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
2. Certified copies of the priori3. Copies of the certified copie	ty documents have been received ty documents have been received s of the priority documents have tional Bureau (PCT Rule 17.2(a))	d. d in Application No been received in this National Stage				
		SAM RIMELL PRIMARY EXAMINER				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date	(PTO-948) Pape	rview Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application (PTO-152) er:				

U.S. Palent and Trademark Office PTOL'-326 (Rev. 1-04) Application/Control Number: 09/435,899

Art Unit: 2164

DETAILED ACTION

Remarks

1. In response to communications filed on 13-December-2004, claims 1, 15, 29, and 40 are amended per applicant's request. Claims 1-50 are presently pending in the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Anderl et al.</u> (International Publication No. 87/07062) in view of <u>Smith</u> (U.S. patent No. 4,9563,769).

As to claim 1, Anderl et al. teaches a portable security system for managing access to a portable data storage cartridge, the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see abstract), the portable security system comprising:

a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23); and

a computer processor mounted in the portable data storage cartridge and coupled to the wireless interface (see figure 1, reference numbers 110, 120, and 130); the computer processor powered by the wireless interface and receiving and transmitting data to the data storage drive via the wireless interface (see page 5, line 31 through page 6, line 23); the computer processor receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches a security system for computer databases (see abstract), in which he teaches the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with at least part of the user identifier from the user table in

accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

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As to claim 15, <u>Anderl et al.</u> teaches a data storage cartridge for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see abstract), comprising:

data storage media mounted in the data storage cartridge for storing the data for the read/write access (see figure 1, reference number 115); a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23); and

a computer processor mounted in the portable data storage cartridge and coupled to the wireless interface (see figure 1, reference numbers 110, 120, and 130); the computer processor powered by the wireless interface and receiving and transmitting data to the data storage drive via the wireless interface (see page 5, line 31 through page 6, line 23); the computer processor receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

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Smith teaches the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the computer processor having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and

combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

As to claim 29, Anderl et al. teaches a method for providing a portable secure interface to a data storage cartridge (see abstract, where it is inherent that "a method for providing a portable secure interface to a data storage cartridge" is disclosed in "a portable data carrier system" that does not provide information of particular applications or file structure to its users), the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see figure 1, reference number 115), and a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23), the method comprising the steps of:

receiving the user authentication messages from the data storage drive via the wireless interface; and transmitting the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message

with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because the data storage cartridge having a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect

to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combining the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see <u>Smith</u>, column 1, lines 7-12).

As to claim 40, Anderl et al. teaches a computer program product usable with a programmable Computer processor having computer readable program code embodied therein for providing a secure interface to a data storage cartridge (see abstract), the programmable computer processor mounted in the data storage cartridge (see figure 1, reference number 110), the data storage cartridge having data storage media for storing data for read/write access by a user of a data storage drive when mounted in the data storage drive (see figure 1, reference number 115), and a wireless interface mounted in the portable data storage cartridge for receiving power and data from, and sending data to, the data storage drive when mounted in the data storage drive (see page 5, line 31 through page 6, line 23), the computer program product comprising:

computer readable program code which causes the programmable computer processor to receive the user authentication messages from the data storage drive via the wireless interface; and computer readable program code which causes the programmable computer processor to transmit the user authorization or denial to the data storage drive via the wireless interface (see page 10, lines 19-26).

Anderl et al. does not teach computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and combine the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

Smith teaches computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media (see column 2, lines 11-17), the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user (see column 5, lines 9-14 and see figure 1); and computer readable program code which causes the programmable computer processor to combine the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity (see column 5, lines 9-14 and see figure 1).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. to include computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted

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activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and computer readable program code which causes the programmable computer processor to combine the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. by the teachings of Smith because computer readable program code which causes the programmable computer processor to provide a user table comprising at least a unique user identifier for each authorized user and at least one permitted activity the user is authorized to conduct with respect to the data storage media, the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user; and computer readable program code which causes the programmable computer processor to combine the user authentication message with at least part of the user identifier from the user table in accordance with the predetermined algorithm to authorize or deny the user activity would limit the access of selected users to pre-selected locations which they are authorized to access (see Smith, column 1, lines 7-12).

As to claims 6, 20, and 44, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table permitted activities comprise a plurality of permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1)

read access to data stored in the data storage media, 2) write access to data stored in the data storage media (see Smith, column 4, lines 59-66), 3) read the user entry of the user table, 4) read all entries of the user table, 5) add entries to the user table, and 6) change/delete entries to the user table (see Smith, column 3, line 62 through column 4, line 14).

As to claims 8, 22, and 46, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table comprises a separate entry for each the user identifier, the entry comprising all the permitted activities the user is authorized to conduct (see <u>Smith</u>, column 2, lines 11-17).

As to claims 9 and 23, <u>Anderl et al.</u> as modified, teaches wherein the computer processor additionally comprises a nonvolatile memory storing the user table (see <u>Anderl et al.</u>, page 11, lines 21-26).

As to claim 33, Anderl et al. as modified, teaches wherein the user table comprises a plurality of the permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media (see Smith column 4, lines 59-66), 3) read the user entry of the user table, 4) read all entries of the user table, 5) add entries to the user table, and 6) change/delete entries to the user table; and wherein the transmitting step comprises transmitting authorization to conduct the selected the user permitted activities the user is authorized to conduct (see Smith, column 3, line 62 through column 4, line 14).

As to claim 35, <u>Anderl et al.</u> as modified, teaches wherein the step of providing the user table comprises a separate entry for each the user identifier, the entry comprising all the permitted activities the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the user separate entry (see <u>Smith</u>, column 2, lines 11-17).

4. Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Davis (U.S. patent No. 4,941,201).

As to claims 2 and 16, <u>Anderl et al.</u> as modified, does not teach wherein the wireless interface comprises an RF interface.

<u>Davis</u> teaches an electronic data storage apparatus (see abstract), in which he teaches wherein the wireless interface comprises an RF interface (see column 5, lines 55-61 and see column 21, lines 31-46, where 100 kHz is in the RF range of the Electromagnetic Spectrum).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the wireless interface comprises an RF interface.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Davis</u>

because wherein the wireless interface comprises an RF interface would make the propagation delay between the outputs of the inverters 5 microseconds (see <u>Davis</u>, column 21, lines 39-46).

5. Claims 3-5, 17-19, 30-31, and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Wright et al. (U.S. patent No. 6,084,969).

As to claims 3, 17, 30, and 41, <u>Anderl et al.</u> as modified, does not teach wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key.

Wright et al. teaches an encryption system for a two way pager (see abstract), in which he teaches wherein each the user identifier comprises a user symbol and a user decrypting key (see column 11, line 65 through column 12, line 5), wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key (see column 12, lines 5-13).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user

authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, by the teachings of Wright et al. because wherein each the user identifier comprises a user symbol and a user decrypting key, wherein the user authentication message comprises an encrypted user authentication message which may be decrypted by the user decrypting key, and wherein the computer processor conducts the combination by decrypting the user authentication message by the user decrypting key would authenticate the sender and protect the contents of the message (see Wright et al., column 9, lines 51-56).

As to claims 4, 18, 31, and 42, <u>Anderl et al.</u> as modified, teaches wherein the user decrypting key comprises a sender public key, and wherein the predetermined algorithm comprises a public key cryptographic algorithm (see <u>Wright et al.</u>, column 12, lines 5-13).

As to claims 5 and 19, <u>Anderl et al.</u> as modified, teaches wherein the user authentication message is encrypted by a sender private key and a receiver public key (see <u>Wright et al.</u>, column 9, lines 51-56), and wherein the public key cryptographic algorithm decrypts the user authentication message employing a receiver private key and the sender public key, whereby the user authentication message is known to have come from the user (see <u>Wright et al.</u>, column 12, lines 5-13).

As to claims 32 and 43, Anderl et al. as modified, teaches wherein the user authentication message is encrypted by a sender private key and a receiver public key (see Wright et al., column 9, lines 51-56), wherein the public key cryptographic algorithm decrypts the user authentication message employing a receiver private key and the sender public key, and wherein the combining step comprises decrypting the user authentication message by the receiver private key and the sender public key, whereby the user authentication message is known to have come from the user (see Wright et al., column 12, lines 5-13).

6. Claims 7, 10-13, 21, 24-27, 34, 36-38, 45, and 47-49 rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Anderl et al.</u> (International Publication No. 87/07062) in view of <u>Smith</u> (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of <u>Bapat et al.</u> (U.S. patent No. 6,038,563).

As to claims 7, 21, and 45, Anderl et al. as modified, does not teach wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

<u>Bapat et al.</u> teaches access control to a database using a permissions table (see abstract), in which he teaches wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the

computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Bapat et al.</u> because wherein the computer processor user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct would give a way to grant or deny access to certain users (see <u>Bapat et al.</u>, column 11, lines 4-7).

As to claims 10, 24, 36, and 47, <u>Anderl et al.</u> as modified, teaches receiving the user authentication messages from the data storage drive via the wireless interface, and transmitting the class authorization or denial to the data storage drive via the wireless interface (see <u>Anderl et al.</u> page 12, lines 7-15, and see figure 7).

Anderl et al. as modified, does not teach wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial.

Bapat et al. teaches wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier (see column 10, lines 35-47), when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user (see figure 5); and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial (see figure 6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, to include wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, by the teachings of Bapat et al. because wherein the computer processor additionally comprises a class table comprising at least a unique class identifier for each authorized class of users and at least one permitted activity the class of users is authorized to conduct with respect to the data storage media, the class identifier, when combined with a user authentication message from a user of the authorized class of users in accordance with the predetermined algorithm, authorizes the user; and wherein the computer processor additionally, upon receiving the user authentication messages, combining the user authentication message with the class identifier from the class table in accordance with the predetermined algorithm to authorize or deny the class activity to the user, and transmitting the class authorization or denial would make an easy way to define a set of access rules to grant access rights to a broad group of users (see Bapat et al., column 11, lines 56-59) and would help to reduce the amount of data required to define access rules (see Bapat et al., column 9, lines 48-50).

As to claims 11, 25, 37, and 48, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table additionally comprises any class membership of each the user (see <u>Bapat et al.</u>, Column 10, lines 4-10), wherein the user may be authorized with respect to the class table either by the class authorization or by the user authorization (see <u>Bapat et al.</u>, figure 15A).

As to claims 12, 26, and 49, <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table and the class table permitted activities comprise a plurality of permitted

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activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media, 3) read all entries of the class table, 4) add entries to the class table, and 5) change/delete entries to the class table (see <u>Bapat et al.</u>, column 10, lines 35-47).

As to claims 13 and 27, <u>Anderl et al.</u> as modified, teaches wherein the computer processor additionally comprises a 'nonvolatile memory storing the user table (see <u>Anderl et al.</u>, page 11, lines 14-26) and the class table (see <u>Bapat et al.</u>, column 7, lines 18-24).

As to claim 34, <u>Anderl et al.</u> as modified, does not teach wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries.

<u>Bapat et al.</u> teaches wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries (see column 10, lines 35-47).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, to include wherein the user table comprises a separate entry for each the user identifier and the permitted activity the

user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, by the teachings of Bapat et al. because wherein the user table comprises a separate entry for each the user identifier and the permitted activity the user is authorized to conduct; and wherein the transmitting step additionally comprises identifying the user permitted activities from the separate entries would give a way to grant or deny access to certain users (see Bapat et al., column 11, lines 4-7).

As to claim 38, Anderl et al. as modified, teaches wherein the user table and the class table comprise a plurality of permitted activities, selected ones of which each of the users may be authorized to conduct, the permitted activities comprising 1) read access to data stored in the data storage media, 2) write access to data stored in the data storage media, 3) read all entries of the class table, 4) add entries to the class table, and 5) change/delete entries to the class table; and wherein the transmitting step comprises transmitting authorization to conduct the selected the user and the class permitted activities the user is authorized to conduct (see <u>Bapat et al.</u>, column 10, lines 35-47).

7. Claims 14, 28, 39, and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderl et al. (International Publication No. 87/07062) in view of Smith (U.S. patent No. 4,9563,769) as applied to claims 1, 6, 8-9, 15, 20, 22-23, 29, 33, 35, 40, 44, and 46 above, and further in view of Hastings et al. (U.S. patent No. 6,370,629 B1).

As to claims 14, 28, 39, and 50 <u>Anderl et al.</u> as modified, teaches wherein the computer processor user table permitted activities comprise at least 1) read access to data stored in the data storage media (see <u>Smith</u>, column 4, lines 59-66).

Anderl et al. as modified, does not teach wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data.

Hastings et al. teaches giving access to information based on time and geographic position (see abstract), in which he teaches wherein the data stored in the data storage media is encrypted (see column 3, line 63 through column 4, line 4), and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data (see column 5, lines 52-61).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Anderl et al. as modified, to include wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Anderl et al.</u> as modified, by the teachings of <u>Hastings et al.</u> because wherein the data stored in the data storage media is encrypted, and wherein the user authorization for the read access additionally comprises a decryption key for the encrypted stored data would keep an unauthorized user from accessing the files (see <u>Hastings et al.</u>, column 5, lines 52-61).

Declaration Under 37 CFR 1.132

8. The declaration under 37 CFR 1.132 filed 13-December-2005 is insufficient to overcome the rejection of claims 1-50 based upon 35 U.S.C. 103(a) as set forth in the last Office action because:

It refers only to the system described in the above referenced application and not to the individual claims of the application. Thus, there is no showing that the objective evidence of nonobviousness is commensurate in scope with the claims. See MPEP § 716.

Response to Arguments

9. Applicant's arguments filed on 13-December-2004 with respect to rejected claims have been considered but are not deemed persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

In response to the applicant's arguments that <u>Anderl et al.</u> and <u>Smith</u> do not teach the applicant's claimed limitations "unique user identifier for each authorized user" and "the user identifier, when combined with a user authentication message from the authorized user in

accordance with a predetermined algorithm, authorizes the user", the arguments have been fully considered but are not deemed persuasive. Anderl et al. as modified by Smith in the office action teaches a unique user identifier for each authorized user. As seen in Smith column 2, lines 11-17, Smith discloses a table having "a first entry identifying the user". Further Anderl et al. as modified in the office action also discloses "the user identifier, when combined with a user authentication message from the authorized user in accordance with a predetermined algorithm, authorizes the user". This can be seen in column 5, lines 9-14 of Smith and in figure 1 of Smith. Both of these sections of Smith disclose the user signing onto a database and becoming authenticated. Column 5 further discloses parsing the system sign-on by the user and extracting a unique user identification symbol this symbol is then used to determine what operations the user is permitted to perform. It is obvious to one of ordinary skill in the art that a system sign-on would include using both the user identifier and a password, "authentication message".

In response to the applicant's arguments that <u>Anderl et al.</u> and <u>Smith</u> do not teach the applicant's claimed limitation "said computer processor user table permitted activities comprise a plurality of permitted activities, selected ones of which each of said users may be authorized to conduct, said permitted activities comprising *** 5) add entries to said user table, and 6) change/delete entries to said user table" the arguments have been fully considered but are not deemed persuasive. <u>Anderl et al.</u> as modified by <u>Smith</u> discloses in column 3 line 62 through column 4, line 14 of <u>Smith</u> a security administrator position that has the ability to define access privileges of users by the use of profiles and data access tables. Given that the security administrator position would be one of the users, it is inherent that one of the permitted activities

given to this user would be to add entries to the user table and to change and delete entries to the user table in order for the security administrator to define the user rolls.

In response to the applicant's arguments that "a fundamental distinguishing difference exists between the 'designated levels of interaction' of Anderal et al. and the present '899 Application's 'at least one unique user identifier for each authorized user", the arguments have been fully considered but are not deemed persuasive. The <u>Anderl et al.</u> reference cannot be taken alone when considering this feature of the invention since <u>Anderl et al.</u> was modified <u>Smith</u> to disclose "at least one unique user identifier for each authorized user".

In response to the applicant's arguments that <u>Davis</u> "shows nothing directed to a user identifier", the arguments have been fully considered but are not deemed persuasive because <u>Davis</u> is only used to modify <u>Anderl et al.</u> to include the wireless interface is a RF interface as claimed in claim 2. <u>Anderl et al.</u> does not disclose the frequency that the wireless interface operates at. <u>Davis</u> is used to show that operating at RF is obvious to one of ordinary skill in the art.

In response to the applicant's arguments that "Anderl et al., Smith and Wright et al. teach away from Applicant's use of encryption/decryption with the authorization process", the arguments have been fully considered but are not deemed persuasive. Wright et al. clearly teaches encryption/decryption during the authorization process in the section sited in the rejection so it is not clear how Wright et al. or any disclosure being modified by Wright et al.

could not only not teach "encryption/decryption with the authorization process" but also teach away from it.

In response to the applicant's arguments that <u>Bapat et al.</u> does not teach elements of claims 1 and 6, the arguments have been fully considered but are not deemed persuasive because Bapat et al. is used to reject certain elements of claims 7, 10-13, 21, 24-27, 34, 36-38, 45, and 47-49; and not even mentioned in the 35 U.S.C. 103(a) rejection of claims 1 and 6.

In response to the applicant's arguments that <u>Bapat et al.</u> does not teach a user having access to the permissions table to "3) read all entries of said class table, 4) add entries to said class table, and 5) change/delete entries to said class table", the arguments have been fully considered but are not deemed persuasive. <u>Bapat et al.</u> teaches having groups of users and defining users that are in those groups and actions those groups are permitted to perform. It is inherent that one of the groups of users would have to be able to read/write/change/modify/delete these lists, "tables", in order to have someone capable of making changes to user group definitions.

In response to the applicant's arguments that <u>Hastings et al.</u> does not teach elements of claim 1, the arguments have been fully considered but are not deemed persuasive because <u>Hastings et al.</u> is used to reject certain elements of claims 14, 28, 39, and 50; and not even mentioned in the 35 U.S.C. 103(a) rejection of claim 1.

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Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob F. Betit whose telephone number is (571) 272-4075. The examiner can normally be reached on Monday through Friday 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jfb 11 Apr 2005

SAM RIMELL PRIMARY EXAMINER